

A BIDIRECTIONAL ROUTER AND A METHOD
OF BIDIRECTIONAL AMPLIFICATION

ABSTRACT OF THE DISCLOSURE

The invention relates to a router which may be used for amplification of a bidirectional optical signal using a single optical amplifier.

5 An advantageous embodiment of the invention comprises two 3 dB couplers which are serially connected via a delay element. According to the embodiment, the delay element comprises a difference in distance ΔL between the two optical branches which connect the two 3
10 dB couplers.